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Chief, Services Branch

14 April 1948

Acting Chief, FBIB

Construction Features and Materials

Requisitioned for Monitoring Station.

1. The accompanying requisition covers all technical materials which it is believed can be requisitioned for the project at this time. To indicate clearly what features are not covered, the following is a list of materials and services yet to be provided:

- a. Main Operations Building of 8500 square feet floor space and 1100 square feet basement space. All equipment such as electrical fittings, conduit, channel ways, power distribution panels, water and toilet fixtures, heating, air cooling, lighting, etc., which are normally considered a part of the building. Shelves in storage rooms, benches in monitoring booths and shops, asphalt tile floor and sound proofing of rooms indicated on general plans.
- b. Well for water supply, including drilling, provision of jet type pump, connections to buried 2000 gallon tank (requisitioned), fire fighting pump and motor, 2-inch water piping to a few outside hydrants, etc.
- c. Power house and 4-car garage. The power house, with concrete base for one 30 KW generating plant and an air compressor and the 4-car garage are to be finished complete with lighting and water taps. The generator and compressor are requisitioned.
- d. A storage building of approximately 10' x 20' x 48' dimensions, mounted on a concrete base and provided with lights, power outlets, and storage racks, work benches, etc. A Butler type building is preferred here.

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- e. One six-room dependent home of the "Comway", Johnson Homes type. This to be complete with refrigerator, stove, bathroom fixtures, and utility connections.
- f. Erection of the following antennas:
- (1) Fourteen rhombics, each consisting of four 80-foot poles to be set and guyed, and three-wire curtains to be hung and connections made to the concentric cable.
 - (2) Two Beverage wave antennas, each consisting of nineteen 20-foot poles to be set and the end poles to be guyed, the two wire antennas to be mounted on cross arms and insulators, and the antenna to be connected to concentric cable.
 - (3) Five three-element rotary beams, each to be mounted on an 80-foot pole which is to be set. The antenna, control wires, rotator and concentric cable are to be installed as a part of this item.
- All antenna materials are requisitioned, including the poles and guying materials.
- g. Underground power, telephone and teletype cable connections to the operations building. The public utility power and the cable to carry telephone and teletype lines are to be buried four feet underground in transite duct from the highway to the operations building. The cable and duct are a part of this job.
- h. Underground distribution of power and water between buildings on the site.
- i. Trenching for the laying of RG - 85/U cable and ground systems for the station and the Beverage wave antennas.
- j. Making and surfacing roads and pathways.
- k. Clearing trees, brush, etc. from the site.
- l. Dismantle one 125' steel tower at Silver Hill and move to and erect there on concrete blocks.

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- m. Install about 7500 lineal feet of 3-wire barbed-wire fencing on steel post. The wire is to be broken up into 20-foot sections with ball type insulators. The post, fence and insulators are requisitioned.
- n. Installation of the emergency power plant on concrete blocks in the power house. This includes the burial of a 2000 gallon fuel oil tank, making all connections to the engine, installing the air-compressor and all electrical controls necessary to put the power plant in operations. The tank is requisitioned.
- o. Burial of 2000 gallon fuel oil tank for the operations building heating plant. The tank is requisitioned.
- p. Install tower lighting system for the steel tower of Item "1". This includes underground power line connection to the tower.
- q. Grading suitable areas around all buildings to provide satisfactory water shed.



25X1

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Attachment

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